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Memorandum

To: *Jim Christiansen*

From: *Jeff Montera*

Date: *March 30, 2004*

Subject: *Remediation Status Report*

Development Overview

The remediation status report was developed to enable users of the Libby 2 database to query properties based on their remediation status (e.g., remediation required, remediation pending, or remediation not required). This allows for the user to determine remediation status at an individual property as well as determine the total number of properties that fall within a remediation status category. The categories, decision rules, and action levels are based on EPA's Draft Final Residential/Commercial Cleanup Action Level and Clearance Criteria Technical Memorandum, dated December 15, 2003.

Remediation required properties are those that have at least one remediation trigger (e.g., vermiculite containing insulation [VCI], at least one dust sample result ≥ 5000 structures per square centimeter [s/cm^2], at least one soil sample result $\geq 1\%$ LA, or visible vermiculite in an expected use area [garden, flowerbed, etc.]). Remediation pending refers to properties that are pending further analysis or data before they can be considered either no remediation or remediation required. Finally, remediation not required properties are those that do not have any remediation triggers.

The development of the report involved the following key steps:

- Definition of the three remediation status categories
- Addition of supplemental data in Libby 2 to support remediation status definition
- Development of a query to pull information from Libby 2 by remediation status

Each step involved input from software developers and key project staff from EPA, Volpe, and CDM. The requirements document (Libby2 Remediation Property Group Requirements, revision 2. January 6, 2004) and business rules (Libby Asbestos Project Business Rules for Remediation Reporting, version 1.4. March 4, 2004.) established for this effort are attached.

Results

The remediation status report was run on March 30, 2004. The results of the query are broken down by remediation status (e.g., remediation required, remediation pending, or remediation not required). The remediation required category is further broken down into sub-categories that indicate the type of remediation required (e.g., indoor, outdoor, or indoor and outdoor). Additional information has also been provided (in italics) to help the reader assess what remediation triggers are driving the number of properties that fall within each remediation status category. For example, 264 of the 280 properties requiring indoor only remediation have the remediation trigger visible vermiculite in attic (rule #4).

Currently Libby 2 does not contain information that would indicate a property has been remediated. Therefore, each remediation required sub-category total includes properties that have been remediated. To compensate, the number of properties that have been remediated by sub-category based on information obtained from the field removal list (dated March 27, 2004) has been included. Thus, the number of properties that remains to be remediated in each sub-category equals the total minus the properties completed (e.g., remaining indoor only: $280 - 91 = 189$).

Remediation Required 1619

Indoor Only 280

VCI (rule #4) *Attic* 264

Dust ≥ 5000 (rule #5) 22

Secondary source (rule #3) 186

Contains rules #4 & #5 6

Properties completed 91



Outdoor Only 892

Soil $\geq 1\%$ (rule #6) 41

Visible verm. in use area (rule #7) 862

Contains rules #6 & 7 11

Properties completed 77

Indoor and Outdoor 447

VCI (rule #4) 423

Dust ≥ 5000 (rule #5) 40

Soil $\geq 1\%$ (rule #6) 23

Visible verm. in use area (rule #7) 317

Contains rules #6 or 7 327

Properties completed 42

*3100 soil
3100 dust > unanalyzed*

contains rules 5 & 6

Remediation Pending 727

Visible verm. in non-use area (rule #2) 161
Secondary source (rule #3) 569
Only contains rule #3 454
Soil < 1% (rule #9) 142

collect
dust
results

Remediation Not Required 1218

Again, the numbers presented here are based on current emergency response criteria and are for planning purposes only. They do not represent the final number of cleanups that will be required by EPA. Final decision rules and action levels will be established in record of decision published by EPA in the future.

cc: John McGuiggin
Mark Raney
Tim Wall
Michael Waddell

⊛ Correlations in data -
connections to indoor
dust

⊛ CDM + SRC - come up w/ connections